

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P 0555.12055	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/US 02/ 22576	International filing date (<i>day/month/year</i>) 16/07/2002	(Earliest) Priority Date (<i>day/month/year</i>) 30/07/2001
Applicant KEY KNIFE INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 04 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

4b _____

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 02/22576

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A knife(10) and apparatus for clamping the knife. The knife has front(12) and back sides(14) that, preferably, both include interlocking features adapted for interlocking engagement with corresponding inner and outer clamping members(22,24), to prevent slippage of the knife from the clamping members in orientations wherein the knife rests thereon in the chipping apparatus when the knife is unclamped. Preferably, the interlocking feature of the back side of the knife includes a semi-cylindrical groove(30), and the interlocking feature of the front side of the knife includes two spaced-apart deflector ridges(18a,18b). Preferably the interlocking feature of the outer clamping member is a projection having a semi-cylindrical tip portion(27) wherein the semi-cylindrical shape is preferably half-cylindrical, and wherein the projection(32) extends from an inner surface(23) of the outer clamping member sufficiently far that most of the back side of the knife does not make contact therewith.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B27L11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B27L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 760 674 A (DIEU ANDRE) 18 September 1998 (1998-09-18) figures 2,3 ---	1-18,20
X	AT 397 629 B (BOEHLER YBBSTALWERKE) 25 May 1994 (1994-05-25) page 4, line 40 -page 5, line 1; figures 3,4	1-6, 18-21,25
Y	---	22-24
Y	US 5 979 522 A (SCHUH LOREN R ET AL) 9 November 1999 (1999-11-09) cited in the application figures 2,3 ---	22-24, 30,31

	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

22 October 2002

Date of mailing of the international search report

30/10/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer _____

Huggins, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/22576

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 351 487 A (HALLER JACK R ET AL) 28 September 1982 (1982-09-28) column 3, line 37 -column 4, line 44; figure 3	1-4, 18, 26-29
Y A	---	30, 31 24, 25
X	US 5 564 967 A (JORGENSEN RAY B) 15 October 1996 (1996-10-15) figure 12	30
X	---	
X	US 4 610 285 A (DERIVAZ CHARLES) 9 September 1986 (1986-09-09) figure 2	1-6
X	---	
X	US 5 819 826 A (SCHMATJEN MARC D) 13 October 1998 (1998-10-13) cited in the application figure 8	13

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/22576

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2760674	A	18-09-1998	FR 2760674 A1	18-09-1998
AT 397629	B	25-05-1994	AT 24190 A	15-10-1993
US 5979522	A	09-11-1999	AU 2028000 A	05-06-2000
			EP 1131193 A1	12-09-2001
			WO 0029181 A1	25-05-2000
US 4351487	A	28-09-1982	NONE	
US 5564967	A	15-10-1996	CA 2135146 A1	05-05-1996
			US 5409047 A	25-04-1995
US 4610285	A	09-09-1986	CH 650431 A5	31-07-1985
			AT 29689 T	15-10-1987
			BR 8400541 A	11-09-1984
			CA 1229970 A1	08-12-1987
			DE 3466189 D1	22-10-1987
			EP 0117991 A1	12-09-1984
			JP 1707249 C	27-10-1992
			JP 3072404 B	18-11-1991
			JP 59146705 A	22-08-1984
US 5819826	A	13-10-1998	BR 9804038 A	21-12-1999
			CA 2247796 A1	23-04-1999
			EP 0911127 A2	28-04-1999